

AMENDMENTS TO THE CLAIMS:

1. (currently amended) A method of using at least one filter to receive signals from an antenna by changing filtering characteristics, said method comprising:

changing filtering characteristics on a main signal path as a function of at least one amplitude on another signal path (18) coupled to the main signal path and at least one power level of the main signal path whereby ~~where~~ the main signal path and the other signal path have a frequency band of operation and ~~where~~ said amplitude includes an upper edge amplitude and a lower edge amplitude relative to the frequency band of operation.

2. (currently amended) The method of claim 1 wherein said changing comprises:

using ~~an amplitude~~ a power level in said frequency band of operation on said main signal path to change said filtering characteristics on said main signal path.

3. canceled.

4. canceled.

5. (currently amended) The method of claim 1 wherein said changing comprises:

switching as a function of said at least one amplitude ~~for said adjacent band~~ between a plurality of filters having different filtering characteristics.

6. canceled.

7. (currently amended) The method of claim 1 wherein said changing comprises:

narrowing a bandwidth for a filter on said main signal path to attenuate signals on at least one of the upper edge or lower edge ~~band edge~~ of said frequency band of operation.

8. (currently amended) A method of receiving signals, said method comprising:

changing filtering characteristics on a main signal path of a receiver, having a frequency band of operation, as a function of at least a power level of a signal on the main signal path and at least one amplitude of a one signal, not under the control of the receiver, of an upper edge or a lower edge ~~of a~~ relative to the frequency band of operation of a the receiver ~~for signals not under the control of said receiver, where the at least one amplitude includes an upper edge amplitude and a lower edge amplitude relative to the frequency band of operation.~~

9. (original) The method of claim 8 wherein said changing comprises:

using an amplitude of said frequency band of operation on said main signal path.

10-11. canceled.

12. (original) The method of claim 8 wherein said changing comprises:

switching as a function of said at least one amplitude for said signals not under the control of said receiver between a plurality of filters having different filtering characteristics.

13. canceled.

14. (original) The method of claim 8 wherein said changing comprises:

narrowing a bandwidth for a filter on said main signal path to attenuate signals on at least one band edge of said frequency band of operation.

15. (currently amended) A band edge amplitude reduction system for a receiver comprising:

a variable filter on a main signal path having a frequency band of operation; and processing circuitry coupled to said variable filter and to at least one power level indicator so as to changes filtering characteristics of said variable filter as a function of at least one amplitude for a frequency band adjacent to the frequency band of ~~of~~ operation or as a function of signals not under the control of said receiver and signals on the main signal path or both, where the at least one amplitude includes an upper edge amplitude and or a lower edge amplitude relative to the frequency band of operation or both.

16. canceled.

17. canceled.

18. (currently amended) The system of claim ~~16~~ 15 further comprising:

a detection path receives a replica of said signals from said main signal path;

detection circuitry receives said signals from said detection path and produces an amplitude for said signals in said frequency band of operation on said detection path; and said processing circuitry changes said filtering characteristics of said filter on said main signal path based on a comparison between said at least one amplitude for said adjacent band or said signals not under the control of said receiver and said amplitude for said frequency band of operation.

19. (previously presented) The system of claim 15 wherein said processing circuitry produces control signals to change said filtering characteristics by switching between a plurality of filters having different filtering characteristics as a function of said at least one amplitude for said adjacent band or said signals not under the control of said receiver.

20. (original) The system of claim 15 wherein said processing circuitry produces control signals to narrow a bandwidth for said variable filter on said main signal path to attenuate signals on at least one band edge of said frequency band of operation.

21. (currently amended) A method of using at least one filter to receive signals from an antenna by changing filtering characteristics, said method comprising:

changing filtering characteristics on a main signal path as a function of at least one amplitude on another signal path (18) coupled to the main signal path and a power level on the main signal path where the main signal path and the other signal path have a frequency band of operation and where said amplitude is in an adjacent band relative to the frequency band of operation;

receiving analog signals on said main signal path;

producing a replica of said analog signals on the other signal path where the other signal path is a band edge detection path;

dividing said analog signals on said band edge detection path onto an upper edge detection path and a lower edge detection path; and

producing an upper edge amplitude for said analog signals at an upper edge relative to said frequency band of operation on said upper edge detection path and a lower edge amplitude for said analog signals at a lower edge relative to said frequency band of operation on said lower edge detection path and

detecting a power level of the signal on the main signal path.

22. canceled.

23. canceled.

24. canceled.

25. (currently amended) A band edge amplitude reduction system for a receiver comprising:

a variable filter on a main signal path having a frequency band of operation;

processing circuitry for changing ~~changes~~ filtering characteristics of said variable filter as a function of at least one amplitude for a frequency band adjacent to the frequency band

~~of~~ of operation or as a function of signals not under the control of said receiver ~~or both~~
and as a function of at least one amplitude for the frequency band of operation;

a band edge detection path for receiving ~~receives~~ a replica of analog signals on
said main signal path;

a signal divider for dividing ~~divides~~ said analog signals on said band edge
detection path onto an upper edge detection path and a lower edge detection path; and

detection circuitry for receiving ~~receives~~ said signals on said upper edge detection
path and said lower edge detection path and produces to said processing circuitry an
upper edge amplitude for said analog signals at an upper edge relative to said frequency
band of operation and a lower edge amplitude for said analog signals at a lower edge
relative to said frequency band of operation.